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## United States Department of Agriculture,

WASHINGTON, D. C., *December 31, 1918.*

### MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1918.]

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#### READ CAREFULLY BEFORE ORDERING.

~~DO~~ Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed hereina, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

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#### FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

~~DO~~ NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

**Farm Practices that Increase Crop Yields in Kentucky and Tennessee.** By J. H. Arnold, Agriculturist. Pp. 38, figs. 12. (Contribution from the Office of Farm Management. (*Farmers' Bulletin 981.*)

For distribution in the territory named.

**Cattle Scab and Methods of Control and Eradication.** By Marion Imes, Zoological Division. Pp. 29, figs. 15. Contribution from the Bureau of Animal Industry. (*Farmers' Bulletin 1017.*)

Suitable for general distribution.

**Laws Relating to Fur-Bearing Animals, 1918.** A Summary of Laws in the United States, Canada, and Newfoundland, Relating to Trapping, Open Seasons, Propagation, and Bounties. By David E. Lantz, Assistant Biologist. Pp. 31. Contribution from the Bureau of Biological Survey. (*Farmers' Bulletin 1022.*)

For general distribution.

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## DEPARTMENTAL BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

**Accuracy in Commercial Grading of Opened Eggs.** By M. K. Jenkins, Assistant Bacteriologist, and Norman Hendrickson, Assistant Chemist, Food Research Laboratory. Pp. 27, pls. 5, figs. 3. Contribution from the Bureau of Chemistry. (Professional Paper.) Dec. 10, 1918. (Department Bulletin 391.) Price, 15 cents.

Of interest to dealers in and shippers of opened eggs.

**Logging in the Douglas Fir Region.** By William H. Gibbons, Forest Examiner. Pp. 256, figs. 83. Contribution from the Forest Service. (Professional Paper.) Nov. 14, 1918. (Department Bulletin 711.) Price, 30 cents.

A report on investigations relating to methods and costs of Douglas fir logging. *Not available for free distribution.*

**Small Sawmills, Their Equipment, Construction, and Operation.** By Daniel F. Seerey, Logging Engineer. Pp. 68. Contribution from the Forest Service. Dec. 17, 1918. (Department Bulletin 718.) Price, 10 cents.

Of interest to portable sawmill operators.

**Food Habits of the Mallard Ducks of the United States.** By W. L. McAtee, Assistant Biologist. Pp. 35, pl. 1. Contribution from the Bureau of Biological Survey. (Professional Paper.) Dec. 23, 1918. (Department Bulletin 720.) Price, 5 cents.

This bulletin presents a technical study of the food habits of three species of mallard ducks—the mallard, the black duck, and the southern black duck.

**Drainage Methods and Foundations for Country Roads.** By E. W. James, General Inspector, Vernon M. Peirce, Assistant Engineer, and Charles H. Moorefield, Senior Highway Engineer. Pp. 86, pls. 12, figs. 14. Contribution from the Bureau of Public Roads. (Professional Paper.) Dec. 20, 1918. (Department Bulletin 724.) Price, 20 cents.

Of interest to highway engineers and officials generally.

**Farm Practice in Growing Sugar Beets in Three Districts in Colorado, 1914-15.** By L. A. Moorehouse, Agriculturist, R. S. Washburn, Scientific Assistant, and T. H. Summers, Scientific Assistant, Office of Farm Management, and S. B. Nuckols, Assistant Agriculturist, Office of Sugar Plant Investigations, Bureau of Plant Industry. Pp. 60, figs. 30. Contribution from the Office of Farm Management and the Bureau of Plant Industry. Dec. 14, 1918. (Department Bulletin 726.) Price, 10 cents.

Gives results of an investigation relative to the practice and costs of growing sugar beets in the district named.

**Anthracnose of Cucurbits.** By M. W. Gardner, Scientific Assistant, Cotton, Truck, and Forage Crop Disease Investigations. Pp. 68, pls. 8, figs. 15. Contribution from the Bureau of Plant Industry. (Professional Paper.) Dec. 18, 1918. (Department Bulletin 727.) Price, 15 cents.

A scientific discussion of the cause, life history, and control of anthracnose of the cucumber, muskmelon, watermelon, and certain gourds.

**Certain Desert Plants as Emergency Stock Feed.** By E. O. Wooton, Agriculturist. Pp. 31, pls. 8, fig. 1. Contribution from the Bureau of Plant Industry. Dec. 18, 1918. (Department Bulletin 728.) Price, 10 cents.

A description of several desert shrubs available for and of the method of preparation of same for emergency feed. Of interest to stock raisers in the arid regions.

**Papers on Deciduous-Fruit Insects.** I. The Grape Curculio. II. The Grape Root Borer. By Fred Brooks, Entomologist. III. Experiments in the Control of the Root Form of the Woolly Apple Aphis. By B. R. Leach, Scientific Assistant. Pp. 40, pls. 8, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) Dec. 24, 1918. (Department Bulletin 730.) Price, 10 cents.

A technical description of the life history and habits of these insects and suggested methods for their control.

**Effect of Grazing Upon Western Yellow Pine Reproduction in Central Idaho.** By W. N. Sparhawk, Forest Examiner. Pp. 31, pls. 4. Contribution from the Forest Service. (Professional Paper.) Dec. 19, 1918. (Department Bulletin 738.) Price, 10 cents.

Suggests methods for handling stock on the Forest Reserves to avoid damage to growing timber.

## MISCELLANEOUS.

**Inventory of Seeds and Plants Imported** by the Office of Foreign Seed and Plant Introduction during the Period from Oct. 1 to Dec. 31, 1915. Dec. 24, 1918. (Inventory No. 45. Nos. 41315 to 41684. Bureau of Plant Industry.) Price, 15 cents.

**Report of the Guam Agricultural Experiment Station, 1917.** Pp. 62, pls. 7. Dec. 16, 1916. Price, 10 cents.

**The Work of the Belle Fourche Reclamation Project Experiment Farm in 1917.** By Beyer Aune, Farm Superintendent. Pp. 31, figs. 3. (W. A. I. Cir. 24, Bureau of Plant Industry.) Price, 5 cents.

**The Work of the Scottsbluff Reclamation Project Experiment Farm in 1917.** By James A. Holden, Farm Superintendent. Pp. 28, fig. 1. (W. I. A. Cir. 27, Bureau of Plant Industry.) Price, 5 cents.

**The Work of the Yuma Reclamation Project Experiment Farm in 1917.** By R. E. Blair, Farm Superintendent. Pp. 45, figs. 16. December, 1918. (W. I. A. Cir. 25, Bureau of Plant Industry.) Price, 10 cents.

## SERIALS.

**Journal of Agricultural Research.** (For sale only.) Vol. 15, No. 5. Nov. 4, 1918. Contents: Fumigation of Cattleya Orchids with Hydrocyanic-Acid Gas. (qa O-2.) By E. R. Sasser and H. F. Dietz.—Net Energy Values of Alfalfa Hay and of Starch. (qb Pa-9.) By Henry Prentiss Armsby and J. August Fries.—Soil Factors Affecting the Toxicity of Alkali. (qc Utah-9.) By F. S. Harris and D. W. Pittman. Pp. 263-319, pls. 2, figs. 27. Price, 15 cents.

**Same**, Vol. 15, No. 6. Nov. 11, 1918. Contents: Soil Acidity as Affected by Moisture Conditions of the Soil. (qd Ind-4.) By S. D. Conner.—Determining the Absolute Salt Content of Soils by Means of the Freezing-Point Method. (qe Mich-9.) By George J. Bouyoucos and M. M. McCool.—Sweet-Potato Storage-Rots. (qf G-161.) By L. L. Harter, J. L. Weimer, and J. M. R. Adams. Pp. 321-368, pls. 7. Price, 20 cents.

*NOTE.*—Beginning with volume 5 the *Journal of Agricultural Research* has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

**Experiment Station Record.** Vol. 38, Index Number. Dec. 20, 1918. E. W. Allen, Ph. D., Editor. Pp. i-xxvii, 901-1001. Price, 15 cents.

*NOTE.*—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at \$1 a volume.

**The Monthly Crop Report.** Vol. 4, No. 12. December, 1918. Pp. 145-164. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock, and the crop summary for 1918. For free distribution.

## SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

*These* contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

**Bureau of Animal Industry.** No. 138. October, 1918. Pp. 71-88, Dec. 24, 1918. Price, 5 cents.

**Bureau of Markets.** No. 42. Pp. 12. Dec. 1, 1918. Price, 5 cents.

**Bureau of Markets.** No. 43. Pp. 10. Dec. 27, 1918. Price, 5 cents.



## PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

**Monthly Weather Review.** Vol. 46, No. 9. September, 1918. [Dec. 7, 1918.]  
Pp. 401-443, pls. 2, figs. 5, charts 9. Price, 25 cents per copy, \$2.50 per year.  
Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation during September, 1918. By H. H. Kimball.—Wolfer provisional sunspot relative numbers. By H. H. Kimball.—Halo phenomena observed during September, 1918. By W. R. Gregg.—Capt. Schroeder establishes world altitude record.—Halo observations at York, N. Y. By M. N. Stewart.—Clouds and their significance in local weather forecasting. By A. H. Palmer.—Some correlations between solar activity and the climate of the Far East. By R. Sekiguchi.—Cumulus clouds of Hawaii. By A. M. Hamrick.—Some new facts about the center of typhoons. By C.-C. Chu.

**National Weather and Crop Bulletin**, No. 33, December, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

**Snow and Ice Bulletins** for December 3, 10, 17, 26, 1918. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

EDWY B. REID,  
*Chief, Division of Publications.*